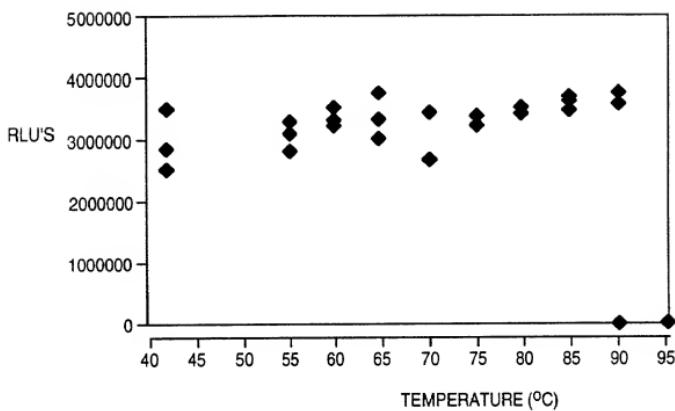
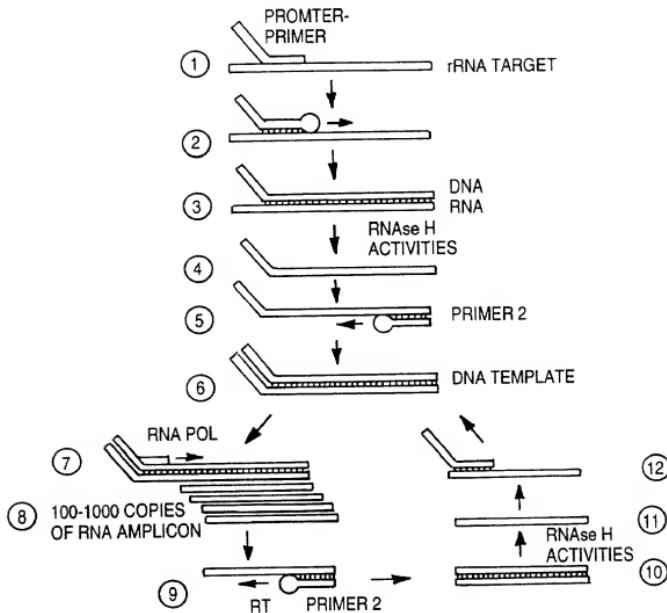


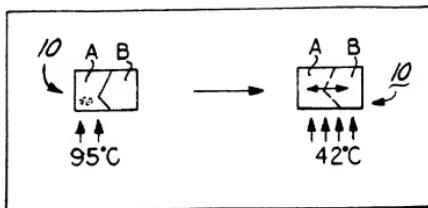
**FIG. 1**

TEMPERATURE (°C)

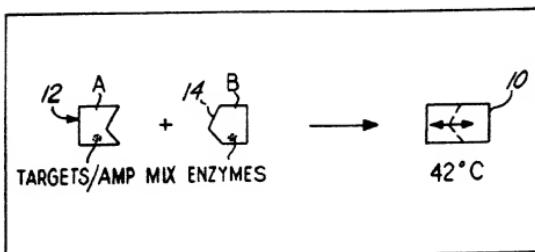


**FIG. 2**

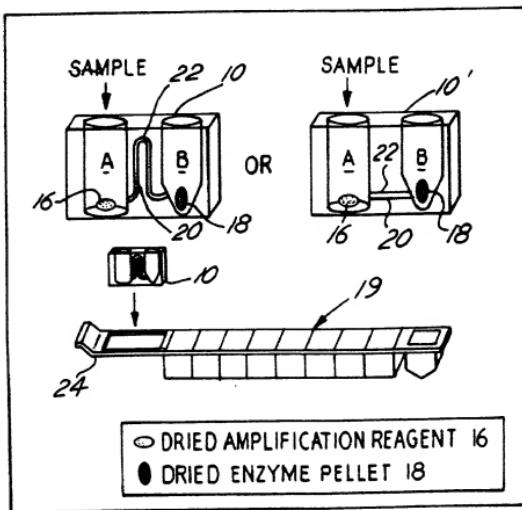




**FIG. 3A**

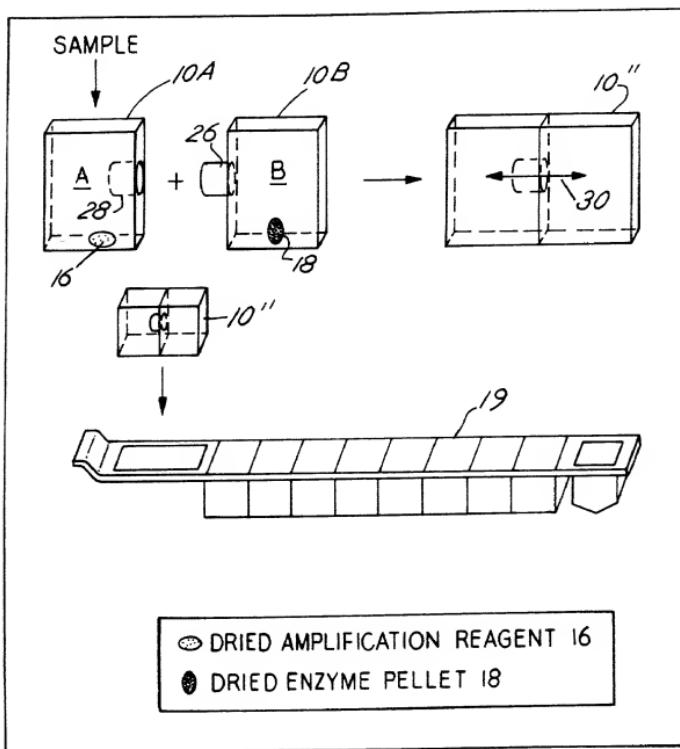


**FIG. 3B**

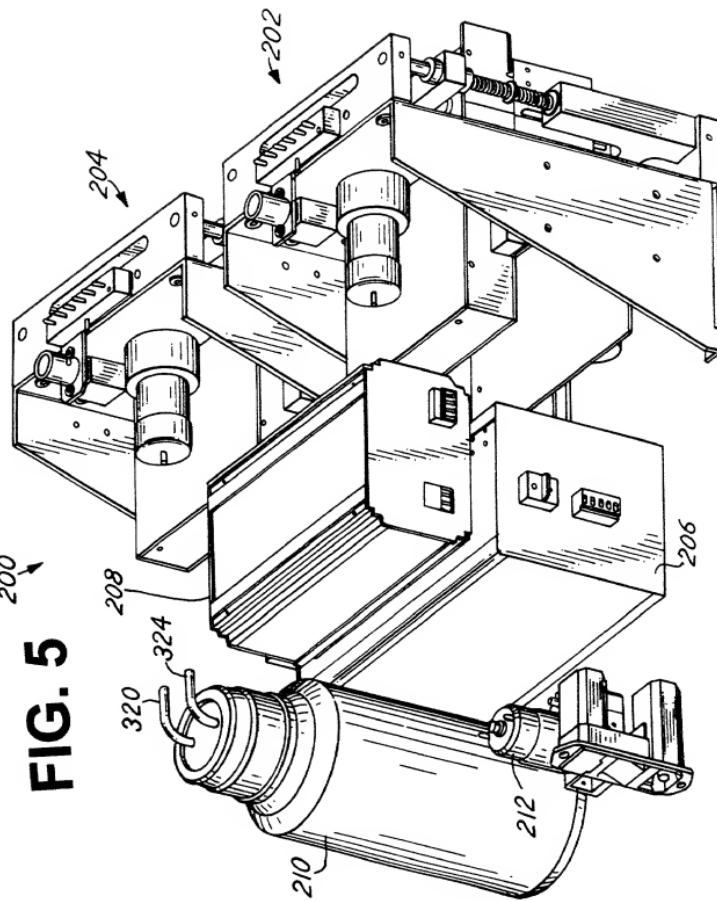


**FIG. 3C**

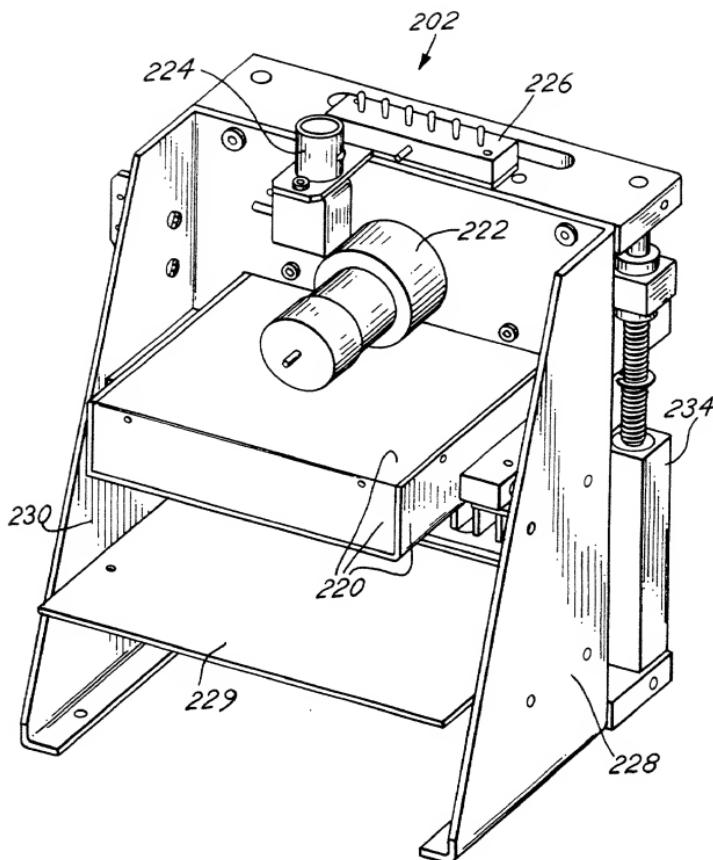
# FIG. 4



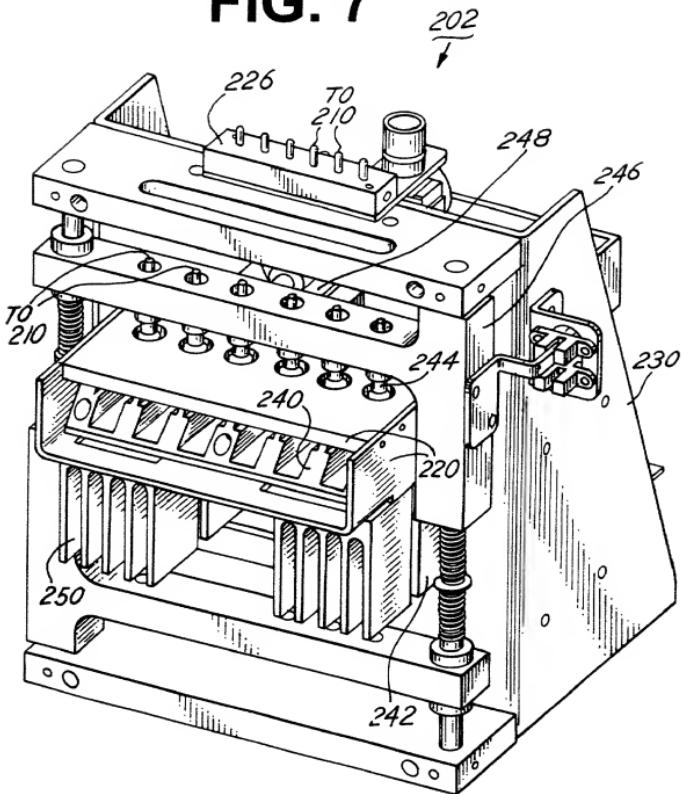
**FIG. 5**



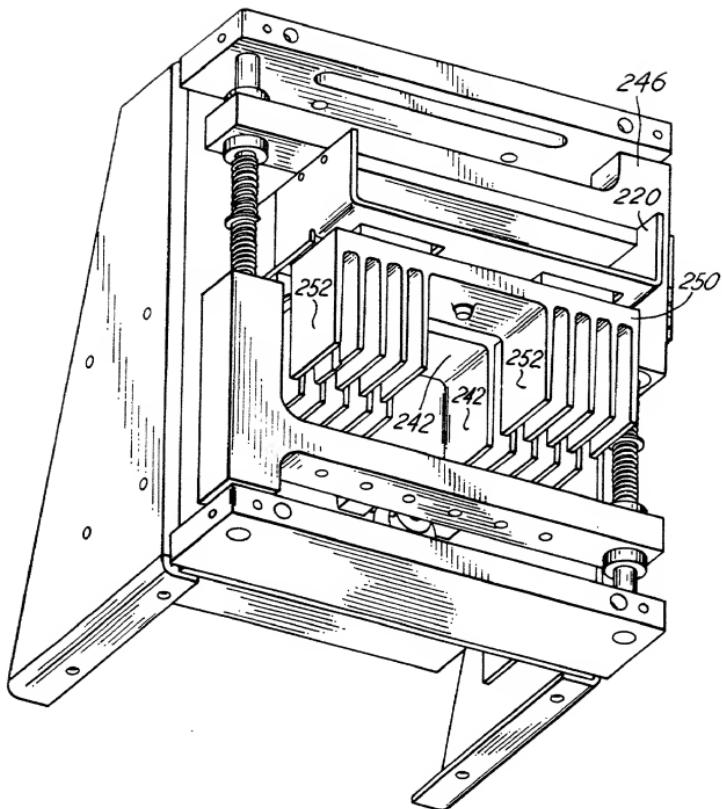
# FIG. 6



**FIG. 7**

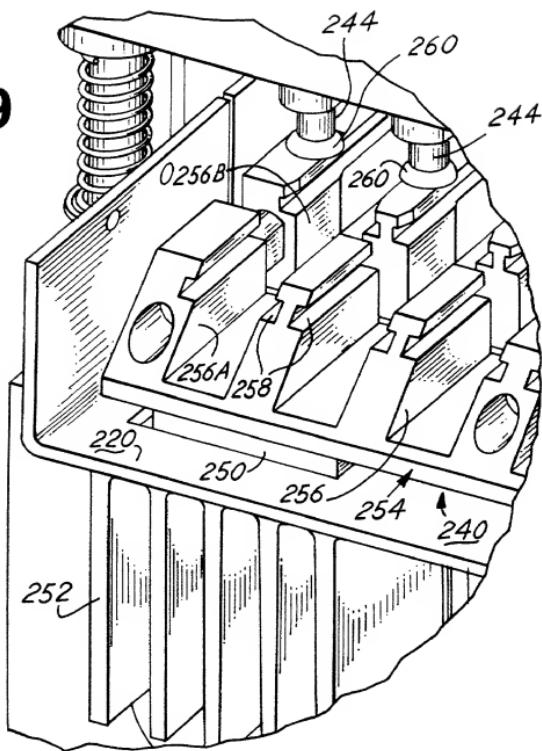


**FIG. 8**



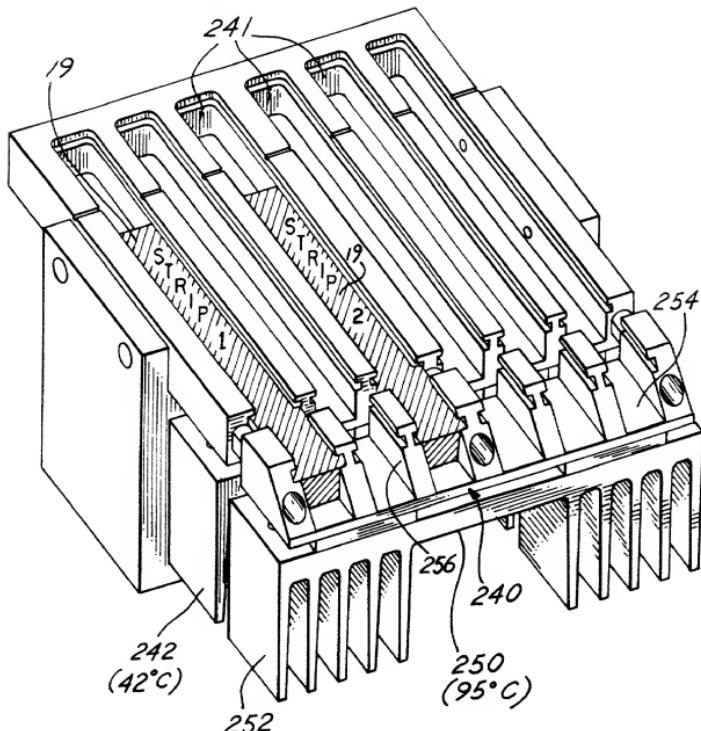
09903481-091501

**FIG. 9**



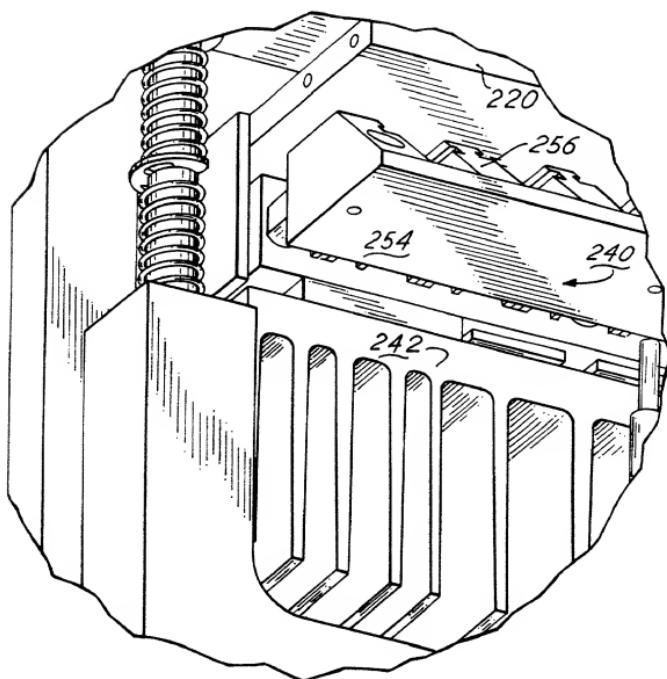
69904181, 691501

**FIG. 10**



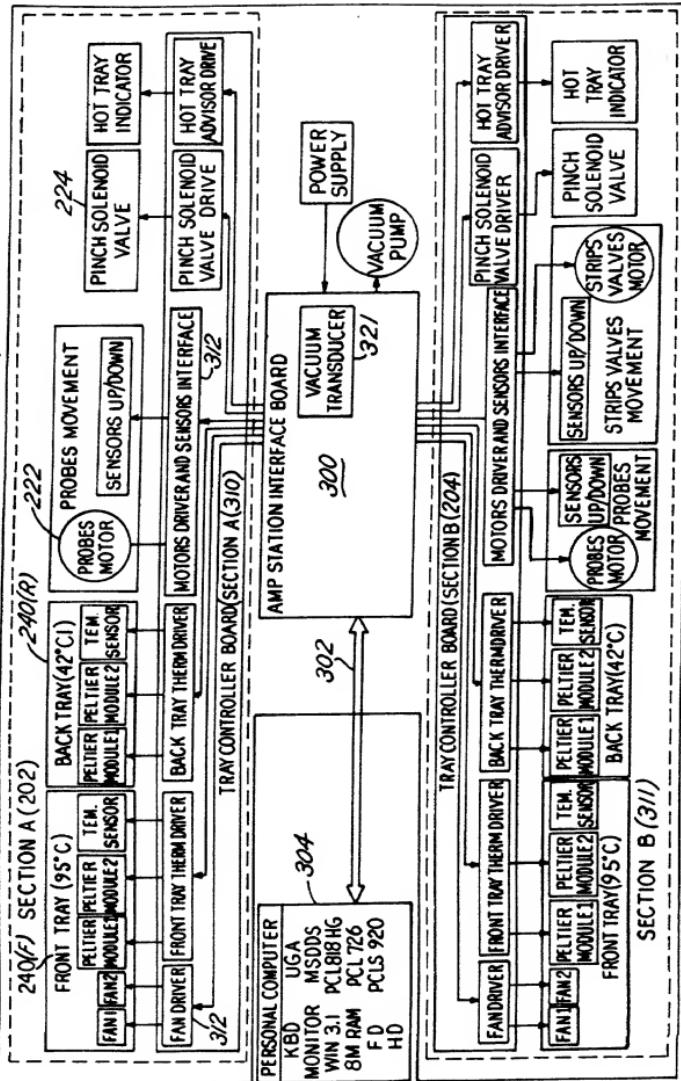
09901481.091501

**FIG. 11**

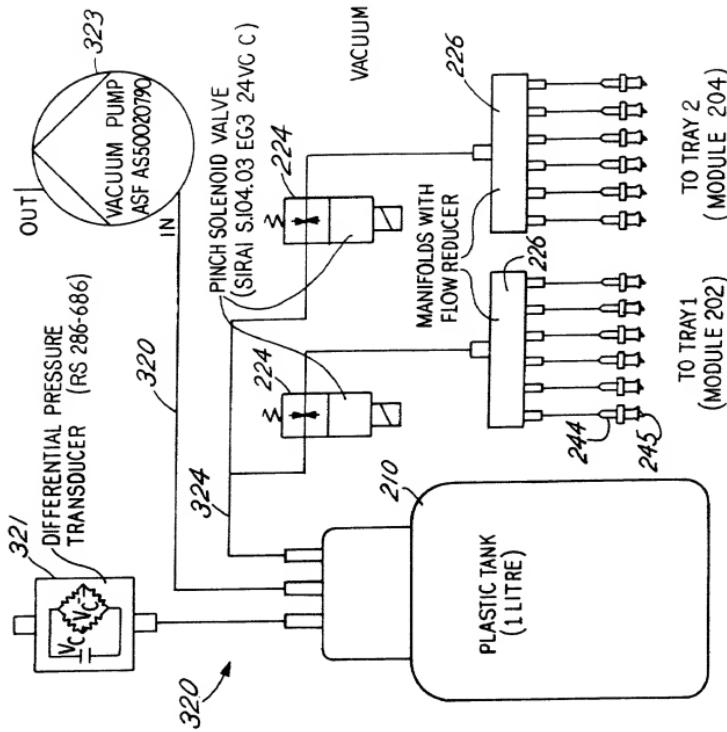


**FIG. 12**

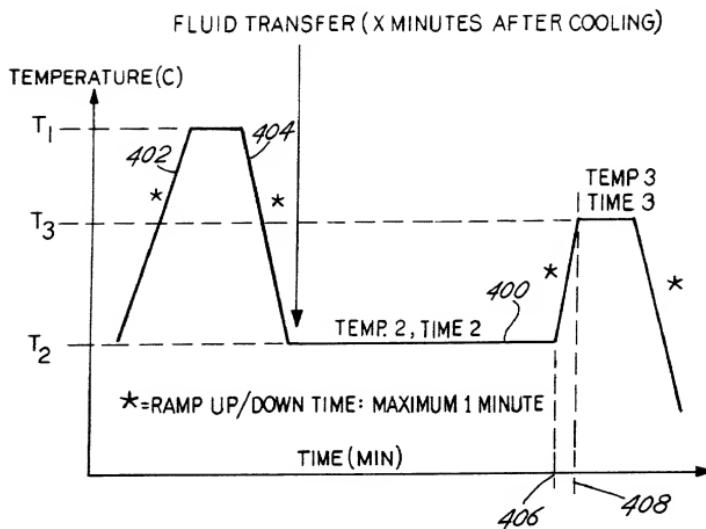
## AMPLIFICATION STATION (BLOCKS DIAGRAM)



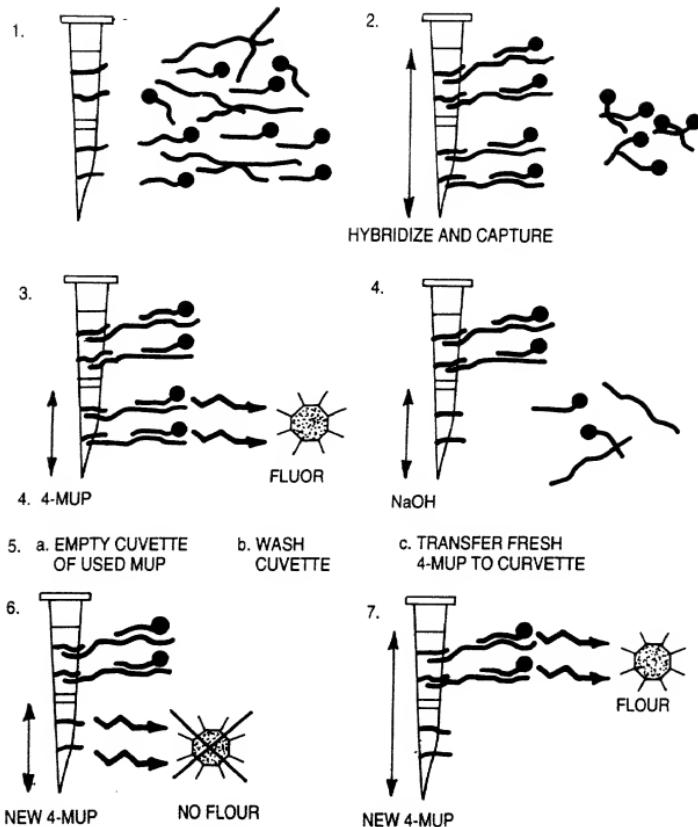
**FIG. 13**  
VACUUM SYSTEM DIAGRAM



**FIG. 14**

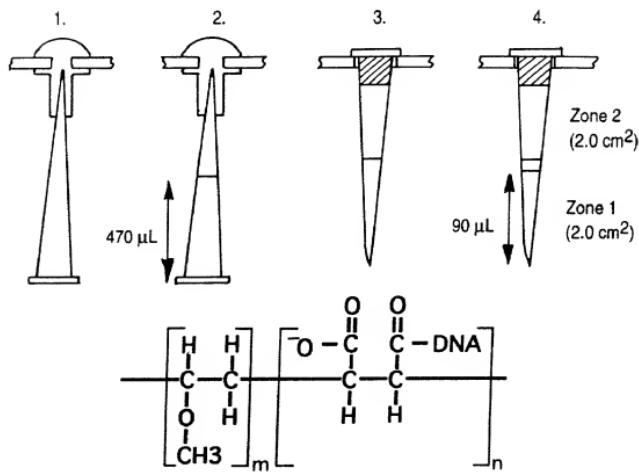


09904484-0915



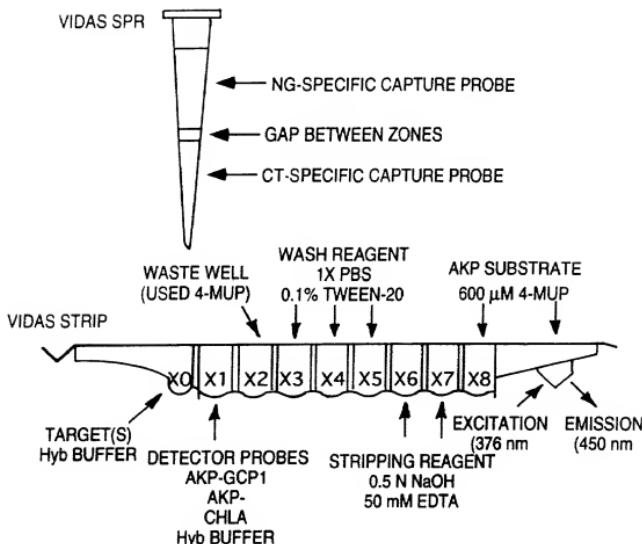
**FIG. 15**

**SPR PRODUCTION WITH DISTINCT CAPTURE ZONES**



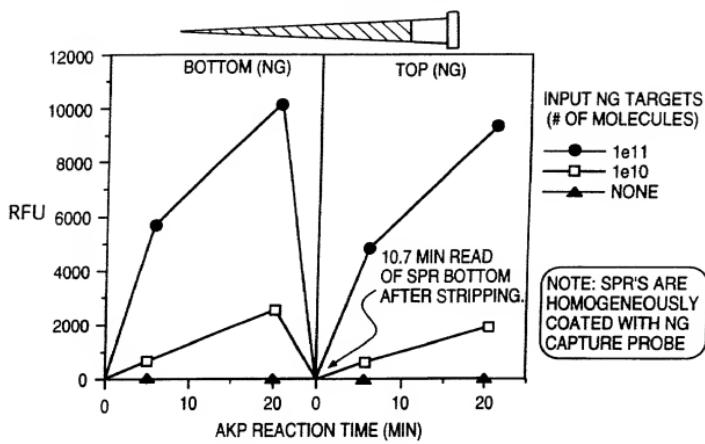
**FIG. 16**

**MULTIPLEX STRIP CONFIGURATION**

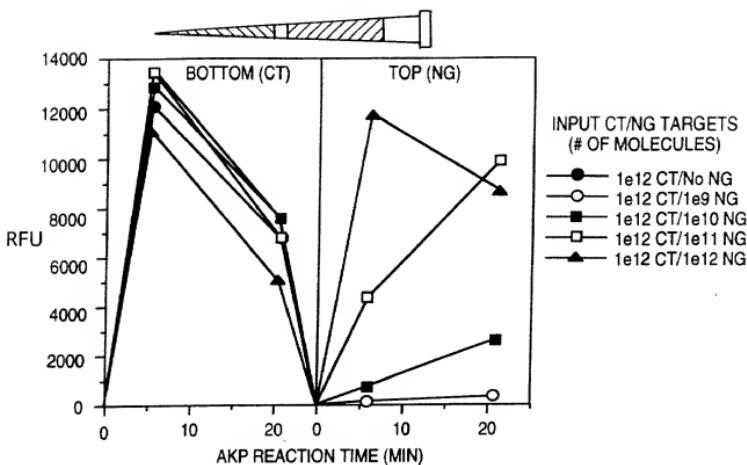


**FIG. 17**

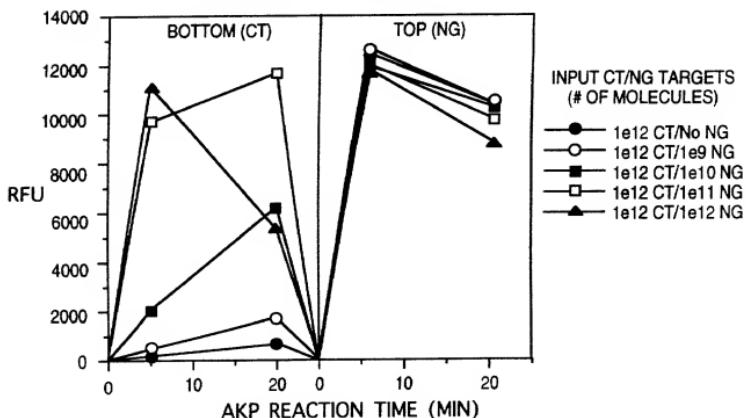
## TEST OF MULTIPLEX VIDAS PROTOCOL

**FIG. 18**

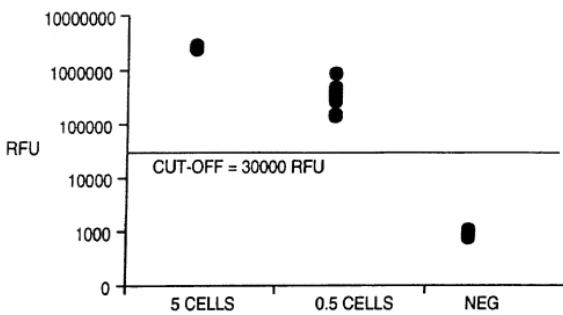
**FIG. 19A**



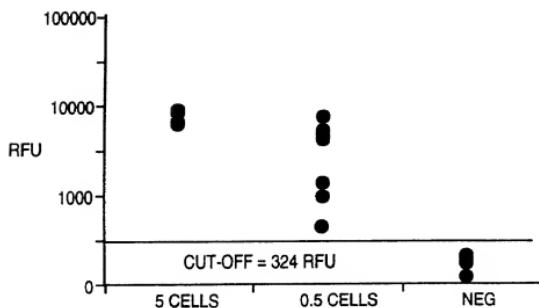
**FIG. 19B**



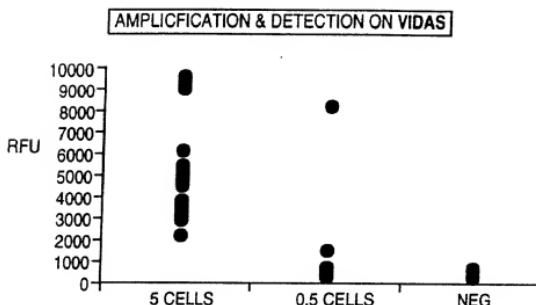
**FIG. 20A**



**FIG. 20B**



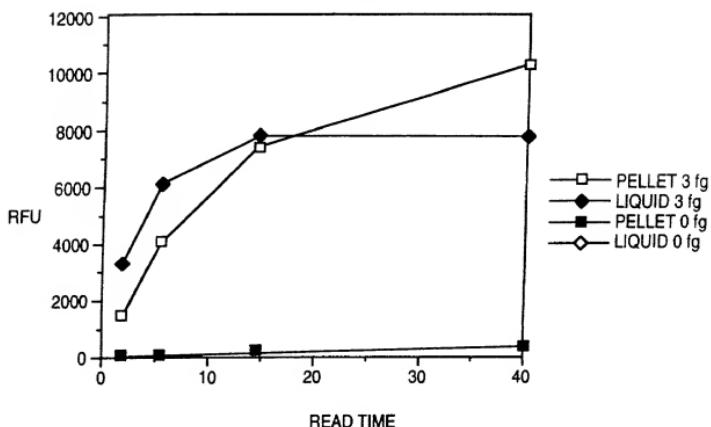
**FIG. 21**



TEST ID: 00153456789000000000000000000000

BINARY: VIDAS DETECTION

BINARY: AMPLIFICATION AND DETECTION  
ON 44°C VIDAS

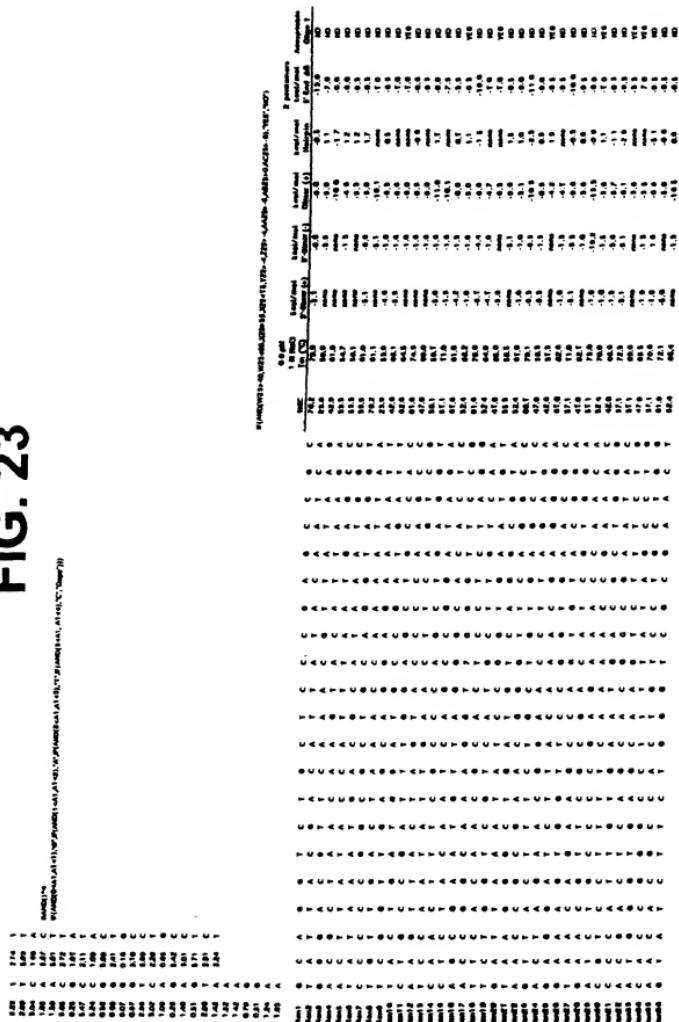


**FIG. 22**

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**FIG. 23**

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Random Internal Control 1

RAN16 Primer: 5'-Agtggaaatggatggacatc-3'  
 RAN16 Probe: 5'-GCGAGCAGATTTGGGACATCTATGGGATG-3'

INTRODUCE YOURSELF

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AGGGGATATCCTCA9CATTTTA-5'

(T7 promoter / RAN19 primer)

THE JOURNAL OF CLIMATE

CTTAAAGGCGAATGTTAGGGCAACTATGGGTGAGCAGTC-3

5'-AGC GAA TGT TAG ggc ACA CTC-3'

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5 - AMBOLLIK-K-1A 999 149 819 100 999

5'-aminolink-ATg ggt gag cAA gTC TTT CTg-3'

THE SONG OF THE SWAN

ligo1 5'-CAA TAC gcc Tga CAT CAG CCC TTA CAG AAA gAC trG cTC ACC CAT gag-3'

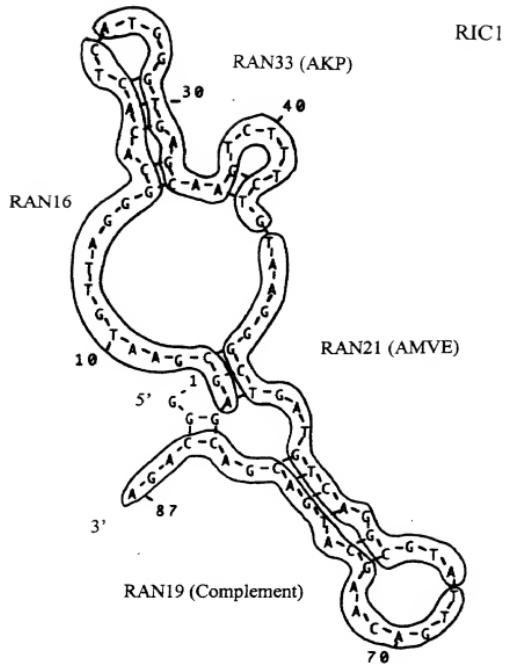
5'-CCA AAC CCT CAC TAA ASS GAA ATG TTA agg CAC ACT CAT qqg Tgg QCA AGT

SCHOLARLY PAPERS

5'-TCG GGT CGT CAT GCT TGT CAA TAC GCC TGA CAT CAG CCC TAA GAC TGG CTC

5'-TCG GGT CGT CAT GCT TGT CAA TAC GCC TGA CAT CAG CCC TAA GAC TGG CTC

FIG. 24



**FIG. 25**

Random Internal Control 2

**RAN3 TMA primer** 5'-CAGTGAGTGTGAGCTGATGTTCTGAGAT-3'  
**TARGET** -----> 5'-CAGTGAGTGTGAGCTGATGTTCTGAGAT-3'  
**RAN32 ANV-probe** 5'-ACGACTAGACGCGAAATAC-3'    **RAN32 ANP-probe** 5'-ACGACTAGACGCGAAATAC-3'  
**RAN7 ANV-probe** 5'-TACAGAAGCCGATGACGTA-3'    **RAN7 ANP-probe** 3'-ACGAGTCGAGATCTTCACACA

**OLIGOS**

RAN51 TMA primers:  
 5'-CAG TAG Agg TAG 999 Ctg CTA 99A gT-3'  
 5'-aInolInk-TPA CGG AGG ACC Gtg TAC 99A-3'  
 5'-aInolInk-ACG ACT Ctg CAC 99C gAA TAC-3'

RAN27 ANY-probe:  
 5'-ATG TTA ATA CGA CRC ACT ATA 999 AGA AGG CAC TCC TCT Agg TCT ggt Agc A-3'

RAN32 ARF-probe:  
 5'-AGG TAT TCG CCg Tga gTC gTC gTT CCg TAC ACT 99C TCC Tgt TAT AC-3'

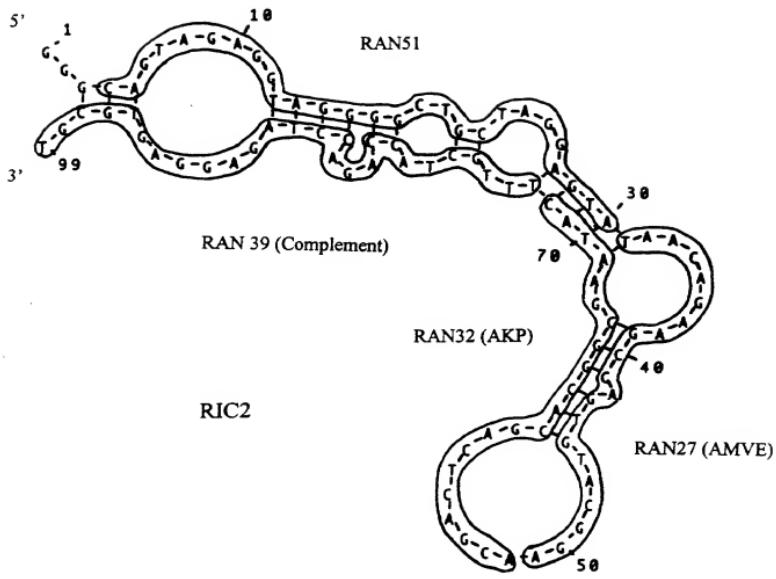
R7 / RAN39 primers:  
 5'-GCA ATT AAC CCT CAC TAA AGG GCA gta 99g 99T 9CT Agg Agt ATA ACA gAA gCC Agt gTA C-3'

RIC2 Detection oligo:  
 5'-ACG CAC TCC TCT Agg TCT ggt AGC AAA gTA TTC gCC gTG CTg Agt CCT TCC gTA CAC Tgg CCT CTA-3'

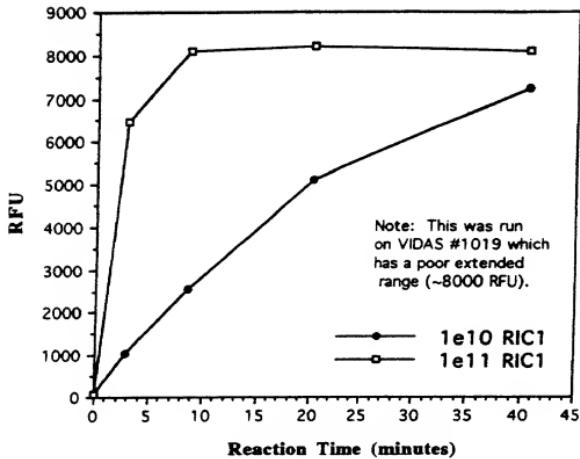
RIC2 Top oligo:  
 5'-GCA ATT AAC CCT CAC TAA AGG GCA gta 99g 99T 9CT Agg Agt ATA ACA gAA gCC Agt gTA C-3'

RIC2 Bottom oligo:

**FIG. 26**



**FIG. 27**

**Detection of RIC1 DNA Oligo Targets****FIG. 28**

## AMPLIFICATION OF PURIFIED RIC1 RNA

Position	RIC1 RNA*	CT RNA	AKP Type & SPr Type				5.4 min	14.6 min	40.0 min
			0 min	1.8 min	5.6	58			
C1	none	RIC1	56	56	56	58	61	61	70
C2	"	none	RIC1	57	55	57	59	61	66
C3	0.1	none	RIC1	56	55	57	57	61	70
C4	"	none	RIC1	57	56	57	61	61	68
C5	1	none	RIC1	56	55	59	59	65	81
C6	"	none	RIC1	56	55	57	62	62	74
D1	10	none	RIC1	55	78	114	202	202	414
D2	"	none	RIC1	56	56	59	59	66	82
D3	100	none	RIC1	56	55	58	62	62	73
D4	"	none	RIC1	57	57	61	70	70	94
D5	1000	none	RIC1	56	58	61	119	119	227
D6	"	none	RIC1	56	57	70	102	102	184
E1	10000	none	RIC1	56	93	209	414	414	948
E2	"	none	RIC1	56	105	246	497	497	1155
E3	100000	none	RIC1	56	395	1474	3029	3029	6510
E4	"	none	RIC1	56	596	1981	4309	4309	7830
E5	1000000	none	RIC1	56	985	3597	7371	7371	10840
E6	"	none	RIC1	55	1062	3617	7464	7464	10839

Amplification performed with CT reagents, spiked with RIC1 primers (25 pmol RAN 16 and 5 pmol T7/RAN 19)  
 Each sample is an independent amplification.  
 RIC1 SPrs coated at 0.5 ng/ $\mu$ l instead of the "normal" 1.0 ng/ $\mu$ l level.

FIG. 29

